

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>				Docket Number (Optional) 3868.2US		Application Number N t Yet Assigned	
				Applicant Orr t al.			
				Filing Date September 8, 2003		Group Art Unit Unkn wn	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS			(Including Author, Title, Date, Pertinent Pages, Etc.)
M			Winkler, Tilo, et al., <i>Pulmonary Capillary Blood Flow by Partial CO₂ Rebreathing: A Simulation Study Using a Bicompartmental Model of Gas Exchange</i> , 1 page.
M			
			de Abreu, Marcelo Gama, et al., <i>Is the Partial CO₂ Rebreathing Technique a Useful Tool for Trending Pulmonary Capillary Blood Flow During Adjustments of Peep?</i> , 1 page.

EXAMINER <div style="font-size: 1.5em; margin-left: 100px;">Nasser</div>	DATE CONSIDERED <div style="font-size: 1.5em; margin-left: 100px;">11/19/04</div>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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M	5,752,509	05/1998	Lachman et al.	—	—	
	5,782,774	07/1998	Shmulewitz	—	—	
	5,836,300	11/1998	Mault	—	—	
M	6,003,511	12/1999	Fukunaga et al.	—	—	

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)
M		de Abreu, M. Gama, et al., <i>Reliability of the Partial CO₂ Rebreathing Technique for Measurement of Cardiac Output</i> , Proceedings RC IEEE-EMBS & 14th BMESI - 1995 (3 pages).
		de Abreu, Marcel Gama, et al., <i>Partial carbon dioxide breathing: A reliable technique for noninvasive measurement of nonshunted pulmonary capillary blood flow</i> , Crit Care Med 1997, Vol. 25, No. 4, pages 675-83.
		Osterlund, B., et al., <i>A new method of using gas exchange measurements for the noninvasive determination of cardiac output: clinical experiences in adults following cardiac surgery</i> , Acta Anaesthesiologica Scandinavica 39 (1995), pages 727-32.
		Gedeon, A., et al., <i>Noninvasive Cardiac Output Determined with a New Method Based on Gas Exchange Measurements and Carbon Dioxide Rebreathing: A Study in Animals/Pigs</i> , Journal of Clinical Monitoring, Vol. 8, No. 4, October 1992, pages 267-78.
		Gedeon, A., et al., <i>A new method for noninvasive bedside determination of pulmonary blood flow</i> , Medical & Biological Engineering & Computing, July 1980, pages 411-18.
M		de Abreu, Marcelo Gama, et al., <i>Measurement of Pulmonary Capillary Blood Flow for Trending Mixed Venous Blood Oxygen Saturation and Oxygen Delivery</i> , 1 page.

EXAMINER <div style="text-align: center; font-size: 1.5em;">Nasser</div>	DATE CONSIDERED <div style="text-align: center; font-size: 1.5em;">11/19/03</div>
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m	3,910,261	10/1975	Ragsdale et al.			
	4,192,301	03/1980	Hardwick			
	4,239,038	12/1980	Holmes			
	4,265,235	05/1981	Fukunaga et al.			
	4,941,476	07/1990	Fisher			
	4,947,860	08/1990	Fisher			
	5,299,579	04/1994	Gedeon et al.			
	5,642,726	07/1997	Owens et al.			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
m	WO 98/12963	04/1998	PCT				

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)
m		Article entitled "Noninvasive Measurement of Cardiac Output Using Partial CO ₂ Rebreathing" by John M. Capek and Rob J. Roy (pp. 653-661)- Printed in IEEE Transactions On Biomedical Engineering, Vol. 35, No. 9 - September 1988
m		Article entitled "Noninvasive Measurement of Cardiac Output Using Partial Carbon-Dioxide Rebreathing" by John Michael Capek (title, introductory pages and pp. 127 - 132) - Printed by UMI Dissertation Services - December 1988
m		Article entitled "Noninvasive Pulmonary Blood Flow for Optimal Peep" by A. Gedeon, ICOR AB, Ulvsundavägen 178 B, S-161 30 Bromma, Sweden (pages 48-58).
m		Article entitled "Non-invasive pulmonary blood flow measurement by means of CO ₂ analysis of expiratory gases" by Bosman, R.J., et al., Intensive Care Med (1991) 17:98-102.
m		Abstract FC 11 of article entitled "a Non-Invasive Technique for Measurement of Lung Perfusion" by H. Blomquist et al., published in "Monitoring, Computer, Instrumentation", Intensive Care Medicine (1986) 12:172.
h		Sackner, Marvin A., <i>Measurement of cardiac output by alveolar gas exchange</i> , Handbook of Physiology ~ The Respiratory System IV, Chapter 13: Pulmonary Capillary Blood Flow, pages 233-55.

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Form PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number (Optional)
3868.2US

Application Number
10/657,577

Applicant Orr et al.

Filing Date
September 8, 2003

Group Art Unit Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
m	4,949,724	08/21/1990	Mahutte et al.			
m	5,971,934	10/26/1999	Scherer et al.			

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EXAMINER

Nasser

DATE CONSIDERED

11/19/07

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